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PUMPS FOR SOVIET CONSTRUCTION PROJECTS

BUILD OWN PUMP BEARINGS -- Moscow, Moskovskaya Pravda, 18 Jul 52

The Moscow Pump Plant imeni Kalinin provided the builders of the Volga-Don Canal with pumps which moved hundreds of thousands of cubic meters of earth in pulp form.

One of the plant's outstanding achievements was the development of the 20-R-11 dredging pump, which has an hourly productivity of 4,000 cubic meters of pulp, and can move it a distance of 2 kilometers horizontally or 50 meters vertically. The pump is 3.5 meters long, 2 meters high, and weighs 10 tons. Its impeller is 1.2 meters in diameter. The plant built its own radial bearings for the pivot journal, since it did not feel it could wait for the First State Bearing Plant imeni Kaganovich to do the job. The first of these pumps was delivered to the Volga-Don Canal builders in 1950.

All the locks of the Volga-Don Canal are equipped with the plant's 20 A-18x1 pumps. These pumps have an hourly productivity of 600 cubic meters of water. The plant has sent the Tsimlyanskaya Hydroelectric Center two 24 A-18x1 pumps, each of which has an hourly productivity of 1,200 cubic meters of water.

The plant has also turned out a number of 500-60 dredging pumps, which move up to 6,500 cubic meters of pulp per hour.

When orders from the great construction projects began to come in, the plant set aside one shop to work on the heavy machines, and set about organizing the other shops for continuous series production. The foundry was re-organized, and a space for a heavy casting section set aside. Heavier work, such as delivering sand to the molding area, and recovering the burned sand, was mechanized. A shot-blasting unit for cleaning the castings was built.

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Continuous production methods were established in the machine shops. To accomplish this, certain machine tools had to be modernized, and some new ones had to be built. Assembly of pumps was mechanized.

In 1950, the plant put 11 new types of pumps into series production. In 1951, it put 14 new types into production and increased the output of heavy pumps  $1\frac{1}{2}$  times. -- G. Ugarov, Director, Moscow Pump Plant imeni Kalinin.

Moscow, Moskovskaya Pravda, 16 Jul 52

The pumps for the 500-60 suction dredges which worked on the Tsimlyanskaya GES were produced by the Moscow Pump Plant imeni Kalinin.

MACHINES MODERNIZED TO PRODUCE PUMPS -- Moscow, Moskovskaya Pravda, 24 Jul 52

In the course of a little over 2 years the Moscow Rostokinskiy Plant built for the Volga-Don Canal project 214 water pumps of various capacities, 230 vibrating tubes for feeding concrete, 19 concrete pumps of 20 cubic meters hourly productivity, and one concrete pump having an hourly productivity of 40 cubic meters. The plant also provided the canal builders with a great number of mortar pumps and plaster-mixing aggregates. All this equipment was accompanied by adequate spare parts.

With the receipt of the orders from the Volga-Don Canal project, the plant undertook for the first time to produce large-scale machines. The plant foundry had never before cast a part weighing more than 300 to 400 kilograms; now it was faced with the task of turning out castings as heavy as  $1\frac{1}{2}$  tons. Formerly the plant worked with only one metal -- gray iron; the new concrete pumps required modified pig iron.

When it was found that some of the pump parts would be too big to be machined on existing equipment, some machine tools were modernized, while others were put together to form large-capacity aggregates capable of handling these parts. -- A. Shibayev, Director, Rostokinskiy Construction and Road Machinery Plant

NEW ARTESIAN PUMP -- Moscow, Vechernyaya Moskva, 7 Aug 52

The Moscow Plant of Glavstroymekhanizatsiya (Main Administration for Mechanization of Construction of Fuel Enterprises) of the Ministry of the Coal Industry, has contributed artesian pumps to the builders of the Volga-Don Canal and the Tsimlyanskaya GES.

In 1952, the plant established mass production of a screw-type artesian pump, designated the VAN-7. These pumps are distinguished from former ones in that they are designed to pump water containing a mixture of sand. During August the plant will build 25 artesian pumps of the new type for the Kuybyshev GES project.

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PUMP WILL GENERATE OWN POWER -- Moscow, Moskovskaya Pravda, 25 Jul 52

The Gorkiy Krasnoye Sormovo Plant is working on a dredging pump which will be used on the Volga-Don Canal. Equipped with a one-kilometer discharge line, the pump will have an hourly productivity of 350 cubic meters of pulp. The pump will be electrically driven, with the pumping unit generating its own electric power. It is scheduled for completion in the third quarter of 1952.

PUMPS FOR MUD, SAND -- Leningrad, Leningradskaya Pravda, 15 Jun 52

The Bobruysk Machine-Building Plant imeni Stalin shipped ahead of schedule dredging pumps designed to handle mud and sand to builders of the Kuybushev and Kakhovka GES and of the Main Turkmen Canal.

PARTS FOR SUCTION DREDGES -- Leningrad, Leningradskaya Pravda, 15 Jul 52

The Kiev Bolshevik Plant has turned out over 70 sets of parts for the suction dredges working on the Volga-Don Canal.

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